AUTHOR INDEX

ABBOTT N. Joan, BUNDGAARD Magnus & CSERR Helen F. Brain vascular volume, electrolytes and blood–brain interface in the cuttlefish *Sepia officinalis* (Cephalopoda). 197

ABBOTT N. Joan, BUNDGAARD Magnus & CSERR Helen F. Tightness of the blood–brain barrier and evidence for brain interstitial fluid flow in the cuttlefish, *Sepia officinalis*. 213

ALTRINGHAM J.D. & JOHNSTON I.A. Effects of phosphate on the contractile properties of fast and slow muscle fibres from an Antarctic fish. 491

ARONSON Ronald S., CRANEFIELD Paul F. & WIT Andrew L. The effects of caffeine and ryanodine on the electrical activity of the canine coronary sinus. 593

BIRMAN Serge & MEUNIER François-Marie Inactivation of acetylcholine release from *Torpedo* synaptosomes in response to prolonged depolarizations. 293

BRACE Helen M., JEFFERYS John G.R. & MELLANBY Jane Long-term changes in hippocampal physiology and learning ability of rats after intrahippocampal tetanus toxin. 343

BRINKMAN J., COLEBATCH J.G., PORTER R. & YORK D.H. Responses of precentral cells during cooling of post-central cortex in conscious monkeys. 611

BRITTON S.L., METTING P.J., RONAU T.F., STRADER J.R. & WELDY D.L. Autoregulation of hind-limb blood flow in conscious dogs. 409

BUNDGAARD Magnus *see* ABBOTT N. Joan, BUNDGAARD Magnus & CSERR Helen F. Brain vascular volume, electrolytes and blood–brain interface in the cuttlefish *Sepia officinalis* (Cephalopoda). 197

BUNDGAARD Magnus *see* ABBOTT N. Joan, BUNDGAARD Magnus & CSERR Helen F. Tightness of the blood–brain barrier and evidence for brain interstitial fluid flow in the cuttlefish, *Sepia officinalis*. 213

COHEN Morton I., FELDMAN Jack L. & SOMMER Detlef Caudal medullary expiratory neurone and internal intercostal nerve discharges in the cat: effects of lung inflation. 147

COLEBATCH J.G. *see* BRINKMAN J., COLEBATCH J.G., PORTER R. & YORK D.H. Responses of precentral cells during cooling of post-central cortex in conscious monkeys. 611

CRANEFIELD Paul F. *see* ARONSON Ronald S., CRANEFIELD Paul F. & WIT Andrew L. The effects of caffeine and ryanodine on the electrical activity of the canine coronary sinus. 593

CSERR Helen F. *see* ABBOTT N. Joan, BUNDGAARD Magnus & CSERR Helen F. Brain vascular volume, electrolytes and blood–brain interface in the cuttlefish *Sepia officinalis* (Cephalopoda). 197

CSERR Helen F. *see* ABBOTT N. Joan, BUNDGAARD Magnus & CSERR Helen F. Tightness of the blood–brain barrier and evidence for brain interstitial fluid flow in the cuttlefish, *Sepia officinalis*. 213

CURTIS D.R. & MALIK R. A neurophysiological analysis of the effect of kainic acid on nerve fibres and terminals in the cat spinal cord. 99

DAVIES J.G.McF., KIRKWOOD P.A. & SEARS T.A. The detection of monosynaptic connexions from inspiratory bulbospinal neurones to inspiratory motoneurones in the cat. 33

DAVIES J.G.McF., KIRKWOOD P.A. & SEARS T.A. The distribution of monosynaptic connexions from inspiratory bulbospinal neurones to inspiratory motoneurones in the cat. 63

DAWSON M. Joan & WRAY Susan The effects of pregnancy and parturition on phosphorus metabolites in rat uterus studied by ^{31}P nuclear magnetic resonance. 19

FAIN Gordon L. & SCHRÖDER Walter H. Calcium content and calcium exchange in dark-adapted toad rods. 641

FELDMAN Jack L. *see* COHEN Morton I., FELDMAN Jack L. & SOMMER Detlef Caudal medullary expiratory neurone and internal intercostal nerve discharges in the cat: effects of lung inflation. 147

GILES W.R. & VAN GINNEKEN A.C.G. A transient outward current in isolated cells from the crista terminalis of rabbit heart. 243

GILES W.R. & SHIBATA E.F. Voltage clamp of bull-frog cardiac pace-maker cells: a quantitative analysis of potassium currents. 265

GLYNN I.M., HOWLAND J.L. & RICHARDS D.E. Evidence for the ordered release of rubidium ions occluded within the Na, K-ATPase of mammalian kidney. 453

GU W., JONES C.T. & PARER J.T. Metabolic and cardiovascular effects on fetal sheep of sustained reduction of uterine blood flow. 109

HAGBARTH K.-E., HÄGGLUND J.V., NORDIN M. & WALLIN E.U. Thixotropic behaviour of human finger flexor muscles with accompanying changes in spindle and reflex responses to stretch. 323

HÄGGLUND J.V. *see* HAGBARTH K.-E., HÄGGLUND J.V., NORDIN M. & WALLIN E.U. Thixotropic behaviour of human finger flexor muscles with accompanying changes in spindle and reflex responses to stretch. 323

HALLAM Trevor J. & RINK Timothy J. Responses to adenosine diphosphate in human platelets loaded with the fluorescent calcium indicator quin2. 131

HARADA Yoshio, KUNO Motoy & WANG Yong Zheng Differential effects of carbon dioxide and pH on central chemoreceptors in the rat *in vitro*. 679

HAYASHI Jon H., MOORE John W. & STUART Ann E. Adaptation in the input–output relation of the synapse made by the barnacle's photoreceptor. 179

HÉBERT M.T. & MARSHALL Janice M. Direct observations of responses of mesenteric microcirculation of the rat to circulating noradrenaline. 393

HOWLAND J.L. *see* GLYNN I.M., HOWLAND J.L. & RICHARDS D.E. Evidence for the ordered release of rubidium ions occluded within the Na, K-ATPase of mammalian kidney. 453

HUME J.R. & UEHARA A. Ionic basis of the different action potential configurations of single guinea-pig atrial and ventricular myocytes. 525

JAFFE Laurinda A., KADO Raymond T. & MUNCY Lavinia Propagating potassium and chloride conductances during activation and fertilization of the egg of the frog, *Rana pipiens*. 227

JEFFERYS John G.R. *see* BRACE Helen M., JEFFERYS John G.R. & MELLANBY Jane Long-term changes in hippocampal physiology and learning ability of rats after intrahippocampal tetanus toxin. 343

JOHNSTON I.A. *see* ALTRINGHAM J.D. & JOHNSTON I.A. Effects of phosphate on the contractile properties of fast and slow muscle fibres from an Antarctic fish. 491

JONES C.T. *see* GU W., JONES C.T. & PARER J.T. Metabolic and cardiovascular effects on fetal sheep of sustained reduction of uterine blood flow. 109

KADO Raymond T. *see* JAFFE Laurinda A., KADO Raymond T. & MUNCY Lavinia Propagating potassium and chloride conductances during activation and fertilization of the egg of the frog, *Rana pipiens*. 227

KIRKWOOD P.A. *see* DAVIES J.G.McF., KIRKWOOD P.A. & SEARS T.A. The detection of monosynaptic connexions from inspiratory bulbospinal neurones to inspiratory motoneurones in the cat. 33

KIRKWOOD P.A. *see* DAVIES J.G.McF., KIRKWOOD P.A. & SEARS T.A. The distribution of monosynaptic connexions from inspiratory bulbospinal neurones to inspiratory motoneurones in the cat. 63

KOJIMA H & TAKAHASHI T. Characterization of miniature inhibitory post-synaptic potentials in rat spinal motoneurones. 627

KRIER Jacob Discharge patterns of pudendal efferent fibres innervating the external anal sphincter of the cat. 471

KUNO Motoy *see* HARADA Yoshio, KUNO Motoy & WANG Yong Zheng Differential effects of carbon dioxide and pH on central chemoreceptors in the rat *in vitro*. 679

LOPES Anibal Gil, MALNIC Gerhard & REBOUÇAS Nancy Amaral Dinitrophenol effect on proximal tubular acidification in the rat. 89

LOWRIE M.B., O'BRIEN R.A.D. & VRBOVÁ G. The effect of altered peripheral field on motoneurone function in developing rat soleus muscles. 513

LYNCH III Carl Ionic conductances in frog short skeletal muscle fibres with slow delayed rectifier currents. 359

LYNCH III Carl Biochemical separation of delayed rectifier currents in frog short skeletal muscle fibres. 379

MCALLEN R.M. Mediation of the fastigial pressor response and a somatosympathetic reflex by ventral medullary neurones in the cat. 423

MALIK R. *see* CURTIS D.R. & MALIK R. A neurophysiological analysis of the effect of kainic acid on nerve fibres and terminals in the cat spinal cord. 99

MALLART Alberto Electric current flow inside perineurial sheaths of mouse motor nerves. 565

MALLART Alberto A calcium-activated potassium current in motor nerve terminals of the mouse. 577

MALNIC Gerhard *see* LOPES Anibal Gil, MALNIC Gerhard & REBOUÇAS Nancy Amaral Dinitrophenol effect on proximal tubular acidification in the rat. 89

MARSHALL Janice M. *see* HÉBERT M.T. & MARSHALL Janice M. Direct observations of responses of mesenteric microcirculation of the rat to circulating noradrenaline. 393

MAUGHAN David & RECCHIA Christopher Diffusible sodium, potassium, magnesium, calcium and phosphorus in frog skeletal muscle. 545

MELLANBY Jane *see* BRACE Helen M., JEFFERYS John G.R. & MELLANBY Jane Long-term changes in hippocampal physiology and learning ability of rats after intrahippocampal tetanus toxin. 343

METTING P.J. *see* BRITTON S.L., METTING P.J., RONAU T.F., STRADER J.R. & WELDY D.L. Autoregulation of hind-limb blood flow in conscious dogs. 409

MEUNIER François-Marie *see* BIRMAN Serge & MEUNIER François-Marie Inactivation of acetylcholine release from *Torpedo* synaptosomes in response to prolonged depolarizations. 293

MOORE John W. *see* HAYASHI Jon H., MOORE John W. & STUART Ann E. Adaptation in the input–output relation of the synapse made by the barnacle's photoreceptor. 179

MUNCY Lavinia *see* JAFFE Laurinda A., KADO Raymond T. & MUNCY Lavinia Propagating potassium and chloride conductances during activation and fertilization of the egg of the frog, *Rana pipiens*. 227

NORDIN M. *see* HAGBARTH K.-E., HÄGGLUND J.V., NORDIN M. & WALLIN E.U. Thixotropic behaviour of human finger flexor muscles with accompanying changes in spindle and reflex responses to stretch. 323

NORTH R.A., SLACK B.E. & SURPRENANT Annmarie Muscarinic m_1 and m_2 receptors mediate depolarization and presynaptic inhibition in guinea-pig enteric nervous system. 435

O'BRIEN R.A.D. *see* LOWRIE M.B., O'BRIEN R.A.D. & VRBOVÁ G. The effect of altered peripheral field on motoneurone function in developing rat soleus muscles. 513

PARER J.T. *see* GU W., JONES C.T. & PARER J.T. Metabolic and cardiovascular effects on fetal sheep of sustained reduction of uterine blood flow. 109

PORTER R. *see* BRINKMAN J., COLEBATCH J.G., PORTER R. & YORK D.H. Responses of precentral cells during cooling of post-central cortex in conscious monkeys. 611

PROSKE U. & STUART G.J. The initial burst of impulses in responses of toad muscle spindles during stretch. 1

REBOUÇAS Nancy Amaral *see* LOPES Anibal Gil, MALNIC Gerhard & REBOUÇAS Nancy Amaral Dinitrophenol effect on proximal tubular acidification in the rat. 89

RECCHIA Christopher *see* MAUGHAN David & RECCHIA Christopher Diffusible sodium, potassium, magnesium, calcium and phosphorus in frog skeletal muscle. 545

RICHARDS D.E. *see* GLYNN I.M., HOWLAND J.L. & RICHARDS D.E. Evidence for the ordered release of rubidium ions occluded within the Na, K-ATPase of mammalian kidney. 453

RINK Timothy J. *see* HALLAM Trevor J. & RINK Timothy J. Responses to adenosine diphosphate in human platelets loaded with the fluorescent calcium indicator quin2. 131

RONAU T.F. *see* BRITTON S.L., METTING P.J., RONAU T.F., STRADER J.R. & WELDY D.L. Autoregulation of hind-limb blood flow in conscious dogs. 409

SCHRÖDER Walter H. *see* FAIN Gordon L. & SCHRÖDER Walter H. Calcium content and calcium exchange in dark-adapted toad rods. 641

SEARS T.A. *see* DAVIES J.G.McF., KIRKWOOD P.A. & SEARS T.A. The detection of monosynaptic connexions from inspiratory bulbospinal neurones to inspiratory motoneurones in the cat. 33

SEARS T.A. *see* DAVIES J.G.McF., KIRKWOOD P.A. & SEARS T.A. The distribution of monosynaptic connexions from inspiratory bulbospinal neurones to inspiratory motoneurones in the cat. 63

SECHER N.H. Heart rate at the onset of static exercise in man with partial neuromuscular blockade. 481

SHIBATA E.F. *see* GILES W.R. & SHIBATA E.F. Voltage clamp of bull-frog cardiac pace-maker cells: a quantitative analysis of potassium currents. 265

SLACK B.E. *see* NORTH R.A., SLACK B.E. & SURPRENANT Annmarie Muscarinic m_1 and m_2 receptors mediate depolarization and presynaptic inhibition in guinea-pig enteric nervous system. 435

SOMMER Detlef *see* COHEN Morton I., FELDMAN Jack L. & SOMMER Detlef Caudal medullary expiratory neurone and internal intercostal nerve discharges in the cat: effects of lung inflation. 147

STITT John T. Evidence for the involvement of the organum vasculosum laminae terminalis in the febrile response of rabbits and rats. 501

STRADER J.R. *see* BRITTON S.L., METTING P.J., RONAU T.F., STRADER J.R. & WELDY D.L. Autoregulation of hind-limb blood flow in conscious dogs. 409

STUART Ann E. *see* HAYASHI Jon H., MOORE John W. & STUART Ann E. Adaptation in the input–output relation of the synapse made by the barnacle's photoreceptor. 179

STUART G.J. *see* PROSKE U. & STUART G.J. The initial burst of impulses in responses of toad muscle spindles during stretch. 1

SURPRENANT Annmarie *see* NORTH R.A., SLACK B.E. & SURPRENANT Annmarie Muscarinic m_1 and m_2 receptors mediate depolarization and presynaptic inhibition in guinea-pig enteric nervous system. 435

TAKAHASHI T. *see* KOJIMA H. & TAKAHASHI T. Characterization of miniature inhibitory post-synaptic potentials in rat spinal motoneurones. 627

UEHARA A. *see* HUME J.R. & UEHARA A. Ionic basis of the different action potential configurations of single guinea-pig atrial and ventricular myocytes. 525

VAN GINNEKEN A.C.G. *see* GILES W.R. & VAN GINNEKEN A.C.G. A transient outward current in isolated cells from the crista terminalis of rabbit heart. 243

VRBOVÁ G. *see* LOWRIE M.B., O'BRIEN R.A.D. & VRBOVÁ G. The effect of altered peripheral field on motoneurone function in developing rat soleus muscles. 513

WALLIN E.U. *see* HAGBARTH K.-E., HÄGGLUND J.V., NORDIN M. & WALLIN E.U. Thixotropic behaviour of human finger flexor muscles with accompanying changes in spindle and reflex responses to stretch. 323

WANG Ging Kuo The long-term excitability of myelinated nerve fibres in the transected frog sciatic nerve. 309

WANG Yong Zheng *see* HARADA Yoshio, KUNO Motoy & WANG Yong Zheng Differential effects of carbon dioxide and pH on central chemoreceptors in the rat *in vitro*. 679

WELDY D.L. *see* BRITTON S.L., METTING P.J., RONAU T.F., STRADER J.R. & WELDY D.L. Autoregulation of hind-limb blood flow in conscious dogs. 409

WIT Andrew L. *see* ARONSON Ronald S., CRANEFIELD Paul F. & WIT Andrew L. The effects of caffeine and ryanodine on the electrical activity of the canine coronary sinus. 593

WRAY Susan *see* DAWSON M. Joan & WRAY Susan The effects of pregnancy and parturition on phosphorus metabolites in rat uterus studied by ^{31}P nuclear magnetic resonance. 19

YAJIMA Takaji Contractile effect of short-chain fatty acids on the isolated colon of the rat. 667

YORK D.H. *see* BRINKMAN J., COLEBATCH J.G., PORTER R. & YORK D.H. Responses of precentral cells during cooling of post-central cortex in conscious monkeys. 611